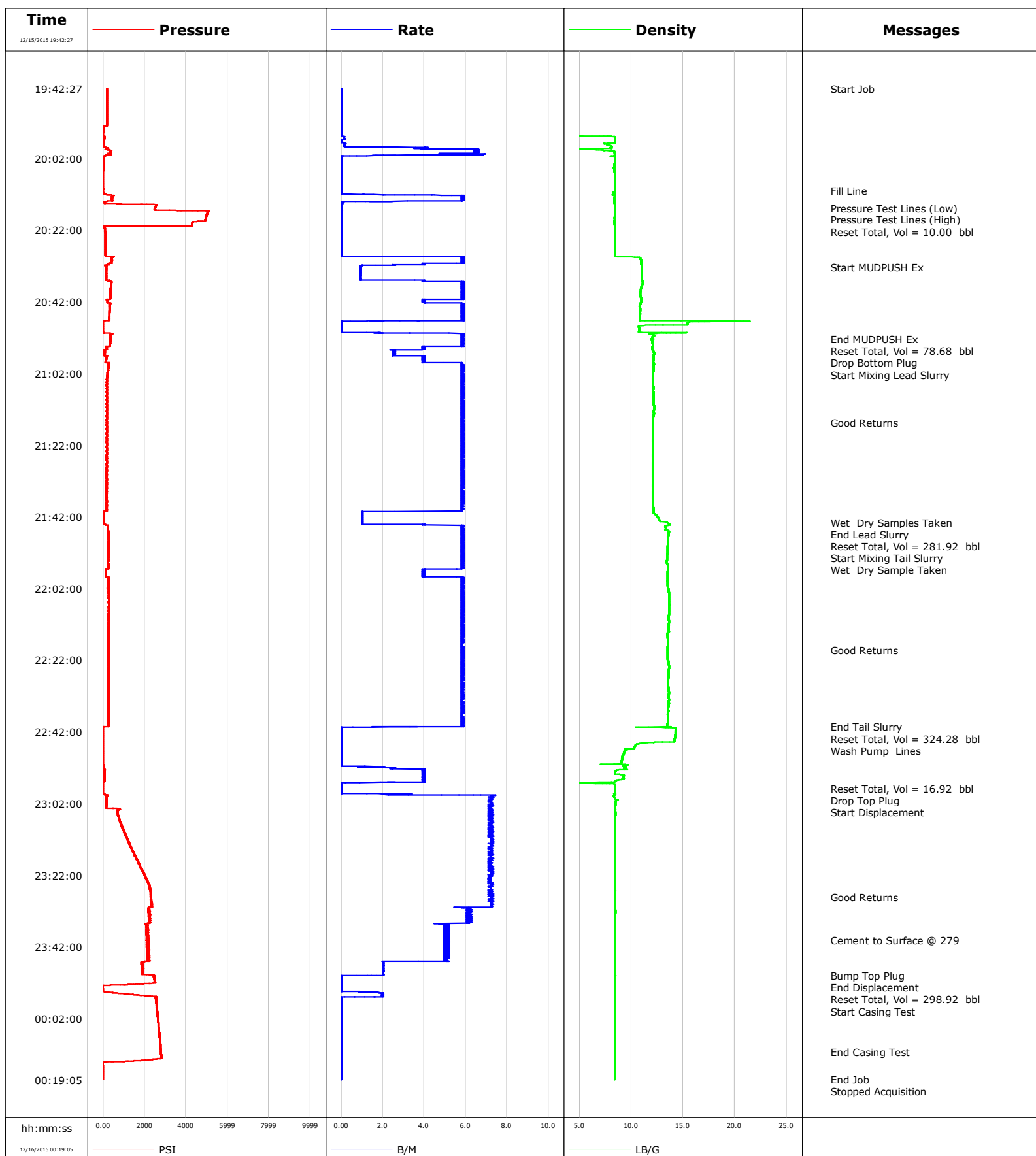


**Well** Alvin  
**Field** Wattenberg  
**Engineer** Wayne Silvester/Justin Storey  
**Country** United States

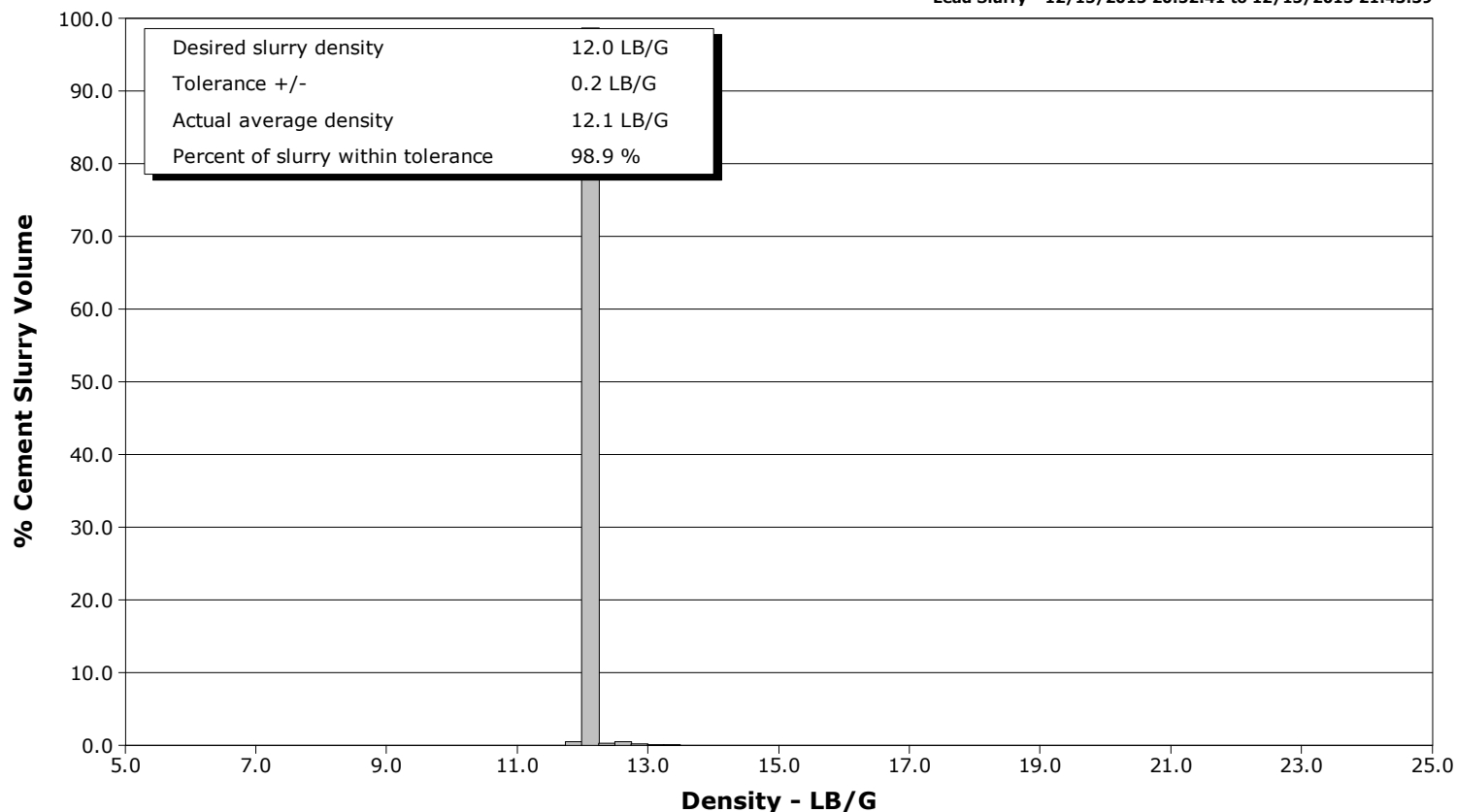
**Client** Anadarko  
**SIR No.** CYUT-00151  
**Job Type** Monobore  
**Job Date** 12-15-2015



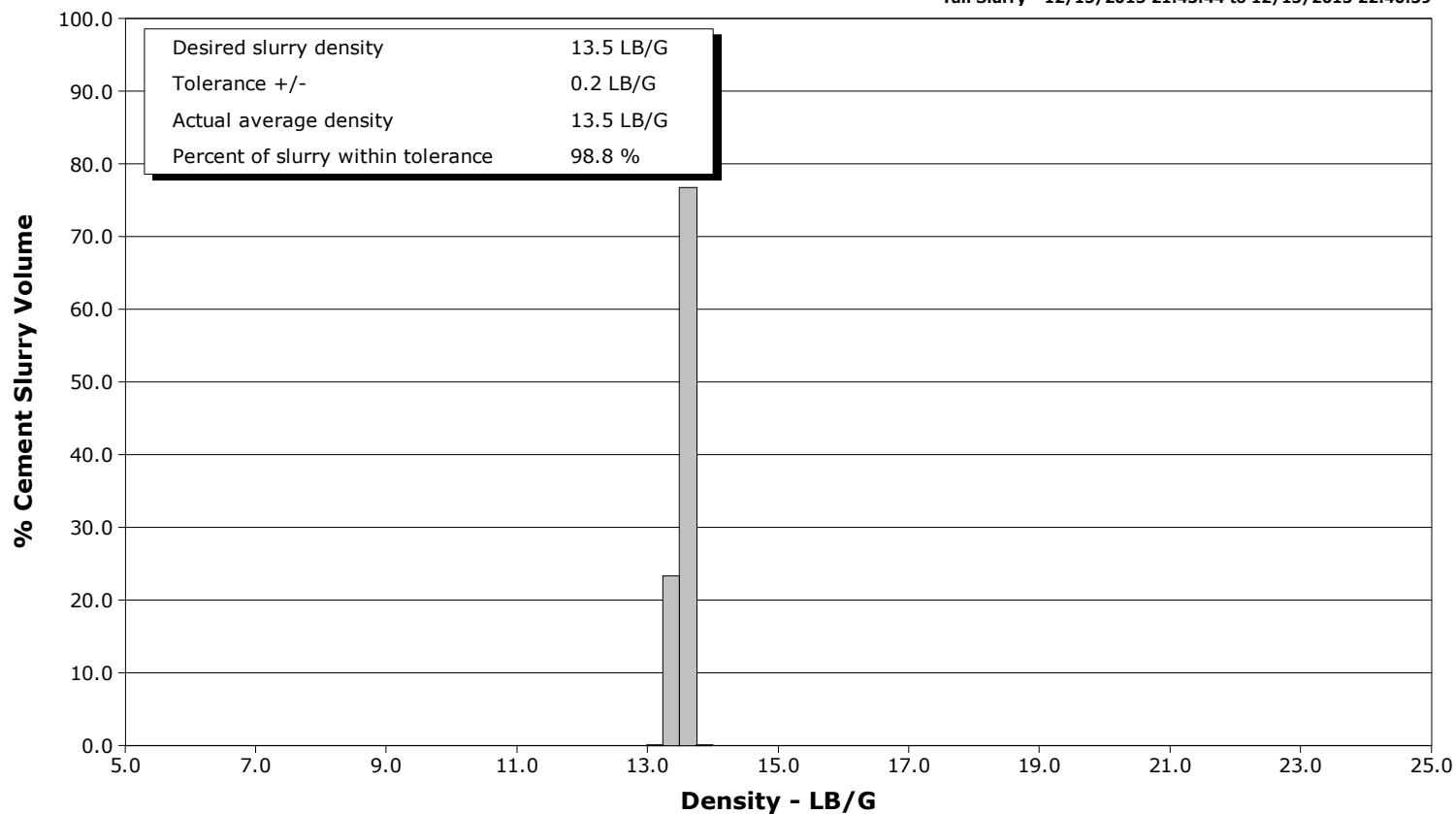
**Well** Alvin  
**Field** Wattenberg  
**Engineer** Wayne Silvester/Justin Storey  
**Country** United States

**Client** Anadarko  
**SIR No.** CYUT-00151  
**Job Type** Monobore  
**Job Date** 12-15-2015

**Lead Slurry - 12/15/2015 20:52:41 to 12/15/2015 21:43:39**



**Tail Slurry - 12/15/2015 21:43:44 to 12/15/2015 22:40:39**



# Cementing Service Report

				Customer Anadarko			Job Number CYUT-00151				
Well Alvin 2C-29HZ			Location (legal) 217304			Schlumberger Location Cheyenne			Job Start Dec/15/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 12994.3 ft		Well TVD 7268.0 ft	
County Weld		State/Province Colorado		BHP 2500 psi		BHST 234 degF		BHCT 231 degF		Pore Press. Gradient lb/gal	
Well Master 0631659928		API/UWI 05123422050000									
Rig Name X24		Drilled For Oil & Gas		Service Via Land		Casing/ Liner					
						Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Other		12994.3		5.5		17.0	
						0.0		0.0		0.0	
Drilling Fluid Type LT OBM		Max. Density 9.70 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
Service Line Cementing		Job Type Monobore									
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press 2500 psi		WH Connection 5 1/2		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
						ft		ft		ft	
						ft		ft		ft	
						Treat Down Casing		Displacement 299.9 bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 302.0 bbl		Annular Vol. 92.0 bbl	
										Openhole Vol. 451.0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools		Squeeze Job			
Lift Pressure 1900 psi						Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 12994.3 ft		Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type		Tool Depth ft			
Cement Head Type Single						Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Dec/15/2015		Arrived on Location Dec/15/2015		Leave Location Dec/15/2015		Collar Type Float		Tail Pipe Depth ft			
						Collar Depth 12900.8 ft		Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_PRESS PSI	Message					
12/15/2015	19:42:27	0.0	0.01	0.0	474	Started Acquisition					
12/15/2015	19:47:28	0.0	0.01	0.0	473						
12/15/2015	19:52:29	0.0	0.01	0.0	474						
12/15/2015	19:57:30	0.0	8.42	0.0	6						
12/15/2015	20:02:31	0.0	8.40	0.0	7						
12/15/2015	20:07:32	0.0	8.40	0.0	1						
12/15/2015	20:10:56	0.0	8.41	0.0	-0	Fill Line					
12/15/2015	20:12:33	5.8	8.40	0.1	459						
12/15/2015	20:15:44	0.0	8.40	8.4	2544	Pressure Test Lines (Low)					
12/15/2015	20:17:34	0.0	8.40	8.4	5061						
12/15/2015	20:17:44	0.0	8.40	8.4	5050	Pressure Test Lines (High)					
12/15/2015	20:18:38	0.0	8.40	8.4	5000	Reset Total, Vol = 10.00 bbl					
12/15/2015	20:22:35	0.0	8.40	8.4	108						
12/15/2015	20:27:36	0.0	8.40	8.4	112						
12/15/2015	20:32:24	0.9	11.02	22.1	147	Start MUDPUSH Ex					
12/15/2015	20:32:37	0.9	11.02	22.3	165						
12/15/2015	20:37:38	5.8	10.99	34.3	420						
12/15/2015	20:42:39	5.8	10.88	61.7	350						
12/15/2015	20:47:40	0.0	15.50	88.8	-3						
12/15/2015	20:52:24	5.8	11.93	98.7	449	End MUDPUSH Ex					
12/15/2015	20:52:26	5.8	11.93	98.9	446	Reset Total, Vol = 78.68 bbl					

Well			Field	Job Start		Customer		Job Number	
Alvin 2C-29HZ			Wattenberg		Dec/15/2015		Anadarko		CYUT-00151
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_PRESS PSI	Message			
12/15/2015	21:02:43	5.8	12.11	147.8	326				
12/15/2015	21:07:44	5.8	12.15	177.0	286				
12/15/2015	21:12:45	5.8	12.17	206.1	270				
12/15/2015	21:15:41	5.8	12.10	223.2	247	Good Returns			
12/15/2015	21:17:46	5.8	12.11	235.3	245				
12/15/2015	21:22:47	5.8	12.10	264.5	243				
12/15/2015	21:27:48	5.8	12.06	293.6	233				
12/15/2015	21:32:49	5.8	12.09	322.8	236				
12/15/2015	21:37:50	5.9	12.09	352.0	266				
12/15/2015	21:42:51	1.0	12.69	369.8	76				
12/15/2015	21:43:38	1.0	13.46	370.6	80	Wet Dry Samples Taken			
12/15/2015	21:43:39	1.0	13.47	370.6	78	End Lead Slurry			
12/15/2015	21:43:41	1.0	13.49	370.7	79	Reset Total, Vol = 281.92 bbl			
12/15/2015	21:43:44	1.0	13.51	370.7	79	Start Mixing Tail Slurry			
12/15/2015	21:46:27	5.8	13.60	384.2	408	Wet Dry Sample Taken			
12/15/2015	21:47:52	5.8	13.53	392.4	408				
12/15/2015	21:52:53	5.8	13.45	421.6	363				
12/15/2015	21:57:54	4.0	13.50	448.3	189				
12/15/2015	22:02:55	5.8	13.61	475.8	390				
12/15/2015	22:07:56	5.8	13.64	505.0	402				
12/15/2015	22:12:57	5.8	13.58	534.2	397				
12/15/2015	22:17:58	5.8	13.52	563.3	386				
12/15/2015	22:19:15	5.8	13.49	570.8	381	Good Returns			
12/15/2015	22:22:59	5.8	13.57	592.5	406				
12/15/2015	22:28:00	5.8	13.54	621.6	403				
12/15/2015	22:33:01	5.8	13.64	650.8	415				
12/15/2015	22:38:02	5.8	13.54	679.9	411				
12/15/2015	22:40:39	2.3	13.16	694.9	-19	End Tail Slurry			
12/15/2015	22:40:41	0.6	11.68	695.0	-21	Reset Total, Vol = 324.28 bbl			
12/15/2015	22:41:44	0.0	14.28	695.0	12	Wash Pump Lines			
12/15/2015	22:43:03	0.0	14.22	695.0	12				
12/15/2015	22:48:04	0.0	9.28	695.0	16				
12/15/2015	22:53:05	4.0	8.47	699.2	26				
12/15/2015	22:57:54	0.0	8.42	711.4	10	Reset Total, Vol = 16.92 bbl			
12/15/2015	22:58:06	0.0	8.42	711.4	9				
12/15/2015	22:58:49	0.0	8.42	711.4	10	Drop Top Plug			
12/15/2015	22:58:50	0.0	8.42	711.4	10	Start Displacement			
12/15/2015	23:03:07	7.2	8.44	737.5	131				
12/15/2015	23:08:08	7.2	8.44	773.7	931				
12/15/2015	23:13:09	7.2	8.42	810.0	1304				
12/15/2015	23:18:10	7.2	8.41	846.2	1722				
12/15/2015	23:23:11	7.2	8.44	882.3	2125				
12/15/2015	23:28:04	7.2	8.42	917.5	2361	Good Returns			
12/15/2015	23:28:12	7.2	8.43	918.5	2350				
12/15/2015	23:33:13	6.2	8.42	952.3	2261				
12/15/2015	23:38:14	5.1	8.43	980.1	2168				
12/15/2015	23:40:08	5.1	8.43	989.8	2190	Cement to Surface @ 279			
12/15/2015	23:43:15	5.1	8.43	1005.6	2140				
12/15/2015	23:48:16	2.0	8.43	1024.3	1937				
12/15/2015	23:50:05	0.0	8.45	1027.9	2485	Bump Top Plug			
12/15/2015	23:50:06	0.0	8.44	1027.9	2508	End Displacement			
12/15/2015	23:51:17	0.0	8.40	1027.9	2529	Reset Total, Vol = 298.92 bbl			
12/15/2015	23:53:17	0.0	8.41	1027.9	1				
12/15/2015	23:56:02	0.0	8.41	1030.7	2609	Start Casing Test			

Well			Field		Job Start	Customer		Job Number	
Alvin 2C-29HZ			Wattenberg		Dec/15/2015	Anadarko		CYUT-00151	
Date	Time 24-hr clock	Flow Rate B/M	Density LB/G	Volume BBL	CPF1_PRESS PSI	Message			
12/16/2015	00:03:19	0.0	8.41	1030.7	2706				
12/16/2015	00:08:20	0.0	8.42	1030.7	2786				
12/16/2015	00:11:16	0.0	8.42	1030.7	2830	End Casing Test			
12/16/2015	00:13:21	0.0	8.42	1030.7	2566				
12/16/2015	00:18:22	0.0	8.42	1030.7	9				
12/16/2015	00:19:00	0.0	8.42	1030.7	10	End Job			

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry 5.4	N2	Mud	Maximum Rate 7.5	Total Slurry 605.7	Mud 0.0	Spacer 78.7	N2				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum 5173	Final 9	Average 811	Bump Plug to 2500	Breakdown	Type	Volume bbl	Density lb/gal				
Avg. N2 Percent %	Designed Slurry Volume 590.0 bbl	Displacement 300.1 bbl	Mix Water Temp 67 degF	Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume 20.0 bbl				
				Washed Thru Perfs		<input type="checkbox"/>	To ft				
Customer or Authorized Representative Jason Laumb			Schlumberger Supervisor Wayne Silvester/Justin Storey			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				